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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,259	07/26/2007	Remo Kranich	045463-005000	6454
22204 NIXON PEABO	7590 02/04/200 ODY, LLP	EXAMINER		
401 9TH STRE		CORNET, JEAN P		
SUITE 900 WASHINGTON, DC 20004-2128			ART UNIT	PAPER NUMBER
			4121	
			MAIL DATE	DELIVERY MODE
			02/04/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/593,259	KRANICH ET AL.	
Office Action Summary	Examiner	Art Unit	
	JEAN CORNET	4121	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence add	lress
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 16(a). In no event, however, may a reply be tim ill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONEI	I. nely filed the mailing date of this cor D (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on			
	- action is non-final.		
3) Since this application is in condition for allowan	ice except for formal matters, pro	secution as to the	merits is
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	i3 O.G. 213.	
Disposition of Claims			
4) ☐ Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) 1-10 are subject to restriction and/or expressions.			
Application Papers			
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner	epted or b) objected to by the Edrawing(s) be held in abeyance. See on is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFI	• •
Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National S	Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	nte	

DETAILED ACTION

Claims 1-10 are pending. This application is a national stage of PCT/EP05/02920.

Election/Restrictions

1. Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-6, drawn to a pharmaceutical composition with at least one compound of the formula (Ia), (Ib), (A1), (B1), (A2), (B2), (D), (D)

Group II, claim(s) 7, 8, drawn to a method of inhibiting the binding of P-selectin.

Group III, claim(s) 8-10, drawn to a compound of formula (la), (lb).

Group IV, Claim(s) 8, 9, drawn to a method of preparing a medicine for treatment.

Group V, claim(s) 9, 10, drawn to a method of preparing a medicine for diagnosis.

Group VI, claim(s) 9, 10, drawn to a method of preparing a medicine for therapeutics.

Group VII, Claim 10, drawn to a method of preparing a vehicle for drug targeting of diagnosis or therapeutics.

It is noted that applicant has "the use" claim for claims 8-10. Examiner interprets claims 8-10 as a compound claim, method of preparing a medicine for the treatment of a patient, method of inhibiting the binding of P-selectin, L-selectin or E-selectin, method of preparing a medicine for treatment and method of preparing a medicine for diagnosis and method of preparing a medicine for therapeutics.

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2. The inventions listed as Groups I - VII do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

An international application should relate to only one invention or, if there is more than one invention, the inclusion of those inventions in one international application is only permitted if all inventions are so linked as to from a single general technical inventive concept (PCT Rule 13.1). With respect to a group of inventions claimed in an international application, unity of invention exists only when there is a technical relationship among the claimed inventions involving one or more of the same or corresponding special technical features.

The expression "special technical feature" is defined in PCT Rule 13.2 as meaning those technical features that define a contribution which each of the inventions, considered as a whole, make over the prior art. The determination is made on the contents of the claims as interpreted in light of the description and drawings (if any). Whether or not, any particular feature makes a "contribution" over the prior art and therefore constitutes a "special technical feature" should be considered with respect to novelty and inventive step.

The common technical feature in all groups is the core compound of formulas (Ia), (Ib), (A1), (B1), (A2), (B2), © and (D) The core structure of these compounds can not be a special technical feature under PCT Rule 13.2 because they are shown in the prior art.

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In the case, Appledoorn et al. (The journal of Biochemical Chemistry), published in 2003 by the American chemical society for biochemistry and molecular biology Inc. cited in the IDS discloses compound (I) of Table 1, page 3 that shares similar core structure as the compounds in the instant application. As a result no technical feature exists among the different groups because the inventions of Groups I, II, III, IV, V, VI and VII fail to make a contribution over the prior art with respect to novelty and inventive step. In conclusion, there is a lack of unity of inventions and therefore restriction for examination purpose as indicated is proper.

3. This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are as follows:

For any of groups I-VII elected, applicant is required to elect for:

A single disclosed compound specie of formulas (Ia), (Ib), (A1), (B1), (A2), (B2), © and (D) or disclosed elsewhere in the specification. If applicant elects a species from the above species election which is not found in the instant disclosure as filed, species election may be considered new matter. Additionally, applicant is required to provide a chemical structure of the elected compound as well as to specify precisely where the

elected compound can be found the instant disclosure.

Applicant is required, in reply to this action, to elect a single species to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims

subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

4. The claims are deemed to correspond to the species listed above in the following manner:

The following claim(s) are generic: claims 1 and 7.

- 5. The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: the species share the same core structure as compound (I) of table 1 page 3 in Appledoorn et al. (The journal of Biochemical Chemistry), published in 2003 by the American chemical society for biochemistry and molecular biology Inc. cited in the IDS.
- 6. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does

not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

- 6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 7. The examiner has required restriction between product and process claims.

 Where applicant elects claims directed to the product, and the product claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder.

 All claims directed to a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b). Additionally, in order to retain the right to rejoinder in accordance with the

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above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. **Failure to do so may result in a loss of the right to rejoinder**. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JEAN CORNET whose telephone number is (571)270-7669. The examiner can normally be reached on Monday-Friday 7.30am-5.00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Nolan can be reached on 571-272-0847. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Patrick J. Nolan/ Supervisory Patent Examiner, Art Unit 4121